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REPORT TO THE CONGRESS

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BY THE COMPTROLLER GENERAL OF THE UNITED STATES BRARY SYSTEM

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Examination Of Financial Statements Of The Tennessee Valley Authority For Fiscal Year 1975

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COMPTROLLER GENERAL OF THE UNITED STATES WASHINGTON, D.C. 20548

B-114850

To the President of the Senate and the Speaker of the House of Representatives

This is our report on the examination of the Tennessee Valley Authority's financial statements for fiscal year 1975, pursuant to the Government Corporation Control Act (31 U.S.C. 851).

We are sending copies of this report to the Director, Office of Management and Budget; the Secretary of the Treasury; and the Chairman, Board of Directors, Tennessee Valley Authority.

Comptroller General of the United States

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	ABBREVIATIONS	
GAO	General Accounting Office	
TVA	Tennessee Valley Authority	

COMPTROLLER GENERAL'S REPORT TO THE CONGRESS

EXAMINATION OF FINANCIAL STATEMENTS OF THE TENNESSEE VALLEY AUTHORITY FOR FISCAL YEAR 1975

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DIGEST

In GAO's opinion the financial statements included in this report present fairly the Tennessee Valley Authority's financial position at June 30, 1975 and 1974, and the results of its operations and the changes in the financial position of its programs for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

The Authority's operating revenue from the sale of electric energy increased \$293 million, or 33 percent, in 1975 over 1974, but its net income decreased \$2.8 million, or 3 percent. (See p. 3.)

To offset increasing power system cost, the Authority adjusted power rates upward in January 1975 to increase power revenue by \$58.9 million, or about 10 percent. Fuel and purchased power cost the Authority \$241 million, or 69 percent, more in fiscal year 1975 than in 1974 and prompted adjustments to charges for electric power in each of 11 months of fiscal year 1975. (See p. 4.)

The Authority paid the Treasury \$71.4 million as a return on the Government's appropriation investment of \$1.015 billion in power facilities at July 1, 1974, and also paid \$20 million of power proceeds to the Treasury as a partial repayment of the investment. (See p. 7.)

A scarcity of generating fuels and their increasing cost were major obstacles to the Authority's goal of providing a continuous supply of low-cost electricity. After a serious shortage of coal in the fall of 1974, the Authority was able to rapidly replenish its coal stockpiles, but the prices it paid for coal remained relatively high. (See p. 9.)

By 1984 the Authority plans to increase its generating capacity by 21.2 million kilowatts, 91 percent of which will be provided by seven nuclear plants. Forty-five percent of its capacity will then be in nuclear-powered generating plants, compared to 9 percent at June 30, 1975. (See p. 13.)

The Authority's programs for developing the resources of tributary areas in fiscal year 1975 included: solid waste disposal; collection and recycling of abandoned automobiles; countywide fire protection; and local applications of computer techniques. The Authority also demonstrated an energy conservation project involving mass transit and continued the operation townlift program. (See pp. 23 and 24.)

BEST DOCUMENT AVAILABLE

CHAPTER 1

INTRODUCTION

The Tennessee Valley Authority (TVA) is an independent Government corporation created by the Tennessee Valley Authority Act of May 18, 1933 (48 Stat. 58, 16 U.S.C. 831), to improve the public usefulness of the Tennessee River and to help develop other resources in the Tennessee Valley and adjoining areas. TVA generates, transmits, and sells electric power; helps control floods; promotes navigation on the Tennessee River; develops fertilizers and munitions; and participates in the development of recreational, agricultural, and other resources in the Tennessee Valley.

TVA activities are directed by its Board of Directors. Members of the Board are appointed by the President, with the advice and consent of the Senate, to serve 9-year overlapping terms. The President also designates one member as Chairman. As of June 30, 1975, the Board members and the expiration dates of their terms were:

Aubrey J. Wagner, Chairman May 18, 1978 William L. Jenkins May 18, 1981

Mr. Don McBride served as a member of the Board until his term expired on May 18, 1975. The position was still vacant as of November 24, 1975.

Mr. Lynn Seeber, TVA's General Manager, is responsible to the Board for carrying out its programs, policies, and decisions.

In accordance with the Government Corporation Control Act (31 U.S.C. 851), this report includes information and comments to keep the Congress informed of TVA's financial condition and operations. During fiscal year 1975, at the request of a Member of the Congress, we also furnished two reports to the Congress on TVA's power operations. One report (B-114850, Nov. 4, 1974) discussed a coal shortage and possible curtailment of electric power service experienced by TVA in the latter part of 1974. The other report (RED-75-368, Apr. 29, 1975) provided information on aspects of TVA's power operations.

Information on TVA's activities during fiscal year 1975 can also be found in its report to the President and to the Congress, required each December by the TVA Act.

CHAPTER 2

POWER

power at wholesale prices to 160 municipal and cooperative electric systems which distribute the power to more than 2.5 dlion customers in parts of seven States. TVA also directly serves 50 industrial customers with large or unusual power requirements and several Federal atomic, aerospace, and military installations.

Financially, TVA's power program is separate from its other programs. The power program is self-supporting, and part of the net income earned under the program is used to pay a return on appropriated funds invested in TVA's power facilities and to repay the investment. TVA's power accounts are kept in accordance with the uniform system prescribed for electric utilities by the Federal Power Commission.

OPERATING RESULTS

Power program assets increased by \$1.068 billion during fiscal year 1975 and totaled \$5.877 billion at June 30, 1975, or about 89 percent of TVA's total assets of \$6.620 billion. A summary of TVA's power operations results for fiscal years 1975 and 1974 follows.

			Percent increase or
	1975	1974	decrease (-)
	(000 om:	itted)	
Operating revenues:	47 3 m = - c m	****	
Sales of electric energy			
Rents	20,724	19,983	4
Total operating revenue	s 1,176,291	883,626	33
Operating expenses	961,138	679,499	41
Operating income	215,153	204,127	5
Other income and deductions	117,184	85,411	37
Income before interest charges	332,337	289,538	15
Interest charges	228,976		
Net income Payment of return on	103,361	106,154	-3
appropriation investment	71,372	63,422	13
Increase in retained earnings	\$31,989	\$ <u>42,732</u>	-25

Exhibit II presents the details of the power program's operating results.

Operating revenues were \$293 million (33 percent) higher in fiscal year 1975 than in 1974; however, net income was about \$2.8 million (3 percent) lower. After the required payment of \$71.4 million to the Treasury as a return on appropriation investment, \$32 million remained as a reinvestment of earnings in the power program—approximately 25 percent less than that of the preceding year.

The \$293 million increase in operating revenue resulted mainly from adjustments of power rates rather than larger electric energy sales. The volume of electricity sold by TVA increased by less than one-half of 1 percent in fiscal year 1975, compared to an average annual increase of almost 5 percent over the 10 previous years. The small increase in fiscal year 1975 is attributed to unfavorable business conditions, widespread energy conservation by consumers, the effects of higher electric rates, and a temporary reduction in energy usage by the Energy Research and Development Administration.

Operating expenses increased by \$282 million, or 41 percent, in fiscal year 1975 over the prior fiscal year. Eighty-six percent of this increase resulted from higher fuel costs, and larger purchases of high-cost energy from other electric utilities. TVA bought large amounts of electricity from other utilities primarily to conserve a dwindling supply of coal in the fall of 1974 and to replace power lost as a result of a shutdown of both units of the Browns Ferry Nuclear Plant in March 1975.

Interest charges increased by \$45.6 million, or 25 percent, as a result of the continued growth of TVA's debt coupled with higher interest rates.

TVA's payment to the Treasury as a return on the Government's appropriation investment increased by about \$8 million, or 13 percent, because of a higher interest rate. In 1976, however, the payment will be \$6.3 million less than it was in 1975 primarily because of interest rate reduction.

POWER RATES

The TVA Act requires TVA to sell power at rates as low as possible but high enough to maintain the financial soundness of the power program. TVA and a committee representing distributors review current and prospective power revenues and expenses quarterly. On the basis of the review, the Board of

Directors determines whether a rate adjustment is needed. In add. From, in fiscal year 1975 the Board approved a policy of adjusting power rates monthly to reflect the changes in the actual cost of fuel and purchased power.

Quarterly rate adjustment

After three quarterly rate reviews for fiscal year 1975, the Board determined that no adjustment of base power rates was needed. Based on the quarterly review in December 1974, however, the Board determined that additional electric revenues were needed to offset increasing power system costs. Therefore the Board adjusted power rates upward, effective with meter readings on or after January 2, 1975, to increase power revenues by an estimated \$58.9 million, or about 10 percent. The quarterly adjustment added \$1.10 to monthly residential power bills for each 1,000 kilowatt-hours of electricity used, based on the most frequently applied rate schedule for residential customers.

Monthly fuel and purchased power adjustments

Because of large and unpredictable variations in fuel costs, in July 1974 the Board approved an addendum to rate schedules to permit the increases or decreases in the actual cost of fuel burned at TVA's generating plants to be included in electric power billings each month. As a result of a rate review in December 1974, the Board approved having the increase or decrease in the actual cost of purchased power, as well as the cost of fuel burned, included in monthly power charges. In fiscal year 1975 fuel and purchased power costs accounted for \$590.7 million, or 62 percent, of TVA's total operating expenses, and these costs increased \$241 million, or 69 percent, over the preceding year. During the year TVA recorded revenues of \$158.6 million as a result of adjustments for fuel and purchased power included in power billings through June 30, 1975.

In calculating the monthly adjustments, TVA determines at the end of each month the amount of the increase or decrease in the actual cost of fuel and purchased power. A formula is applied to compute the amount of the adjustment to be included in power billings, and TVA publishes the adjustment about the middle of the month preceding each billing.

In June 1975, for example, TVA calculated the increases in the cost of fuel and purchased power to be \$32.1 million and \$16.5 million, respectively. Based on the \$48.6 million increase in these costs and the actual

kilowatt-hours of electricity sold in June 1975, TVA determined the adjustment applicable to August 1975 billings.

Under the procedure followed by TVA, a period averaging about 2 months elapses from the time the fuel and purchased power costs are recorded and the time the related billings are made and the revenue is recorded. Because of this 2-month lag, an increase in fuel cost totaling \$3.5 million recorded in fiscal year 1974 was not included in power billings until August 1974. Increases in the cost of fuel and purchased power totaling \$88.8 million, recorded in fiscal year 1975, were not included in power billings until July and August 1975.

TVA adjusted power rates for changes in the cost of fuel and purchased power in each month since August 1974. A table summarizing the monthly adjustments and the January 1975 quarterly adjustment, based on the distributors' monthly billings for a residential customer using 1,000 kilowatt-hours of electricity and the most frequently applied rate schedule, follows.

	Cumulative adjustment	Monthly billing	Cumulative percentage increase
Base rate (including quarterly adjustments to July 1, 1974)	\$ -	\$17.18	
Fuel adjustments: July 1974 August September October November December	- .46 .99 .99 .76 .62	17.18 17.64 18.17 18.17 17.94 17.80	- 3 6 6 4 4
Quarterly adjustment January 2, 1975	1.10	18.28	-
Fuel and purchased power adjustments: January 1975 February March April May June July August	2.23 2.24 2.09 2.55 3.08 3.93 5.91 6.60	20.51 20.52 20.37 20.83 21.36 22.21 24.19 24.88	19 19 19 21 24 29 41 45

As can be seen by the above table, higher fuel and purchased power costs in May and June 1975 resulted in upward adjustments to power billings of \$1.98 per 1,000 kilowatt-hours in July 1975 and \$0.69 per 1,000 kilowatt-hours in August 1975. These two adjustments brought the cumulative fuel adjustment since August 1974 to \$6.60 per 1,000 kilowatt-hours. The higher cost in these 2 months resulted primarily from price adjustments under TVA's long-term contracts and because its two largest generating plants (Browns Ferry Nuclear Plant and Cumberland Steam Plant) were out of service for repairs. In September 1975, residential power billings were adjusted upward by \$1.22, and in October and November 1975 billings were adjusted downward by \$0.80 and \$1.11 per 1,000 kilowatt-hours.

PROPRIETARY CAPITAL AND PAYMENTS TO THE TREASURY

The Government's total proprietary capital in TVA was \$2.603 billion at June 30, 1975, and \$1.894 billion, or 73 percent, of this amount was in the power program. Changes in proprietary capital during fiscal year 1975 are shown in the following table.

	Power	Change Nonpower	
		000 omitte	ed)———
Appropriation investment: Congressional appropriations Transfers of property from	\$ 123	\$ 77,277	\$ 77,400
other Federal agencies	429	338	767
	552	77,615	78,167
Less repayments to general fund of the Treasury	-20,000	27	-20,027
Appropriation investment	-19,448	77,588	58,140
Net income of power program	103,360	_	103,360
Net expense of nonpower programs	-	-35,208	-35,208
Less payment of return on appropriation investment	-71,372	_	-71,372
Net increase in proprie- tary capital	\$ <u>12,540</u>	\$_42,380	\$ 54,920

Section 15d of the TVA Act requires the corporation to pay to the Treasury each year, beginning with fiscal year 1961, a return on the appropriation investment in power facilities. The required payment is based on the average interest rate payable by the Treasury on its total marketable public obligations at the beginning of the fiscal year. The rate is applied to the unrepaid appropriation investment on that date. In fiscal year 1975 the payment of return on the Government's appropriation investment of \$1.015 billion at July 1, 1974, was \$71.4 million, which brought total return payments since 1961 to \$757.8 million.

Section 15d also requires a repayment of the appropriation investment in power facilities beginning in fiscal year 1961. The required repayments are: \$10 million annually for 1961-65, \$15 million annually for 1966-70, and \$20 million every year thereafter until \$1 billion has been repaid. Under specified conditions the Board may defer payments for not more than 2 years, but the Board has not exercised that option. TVA's repayment of \$20 million in fiscal year 1975 brought the cumulative payments under this provision to \$225 million. At this rate of repayment, TVA will have repaid the required \$1 billion in the year 2014. Under legislation in effect before the 1961 repayment provision, TVA had paid \$185 million of power proceeds to the Treasury.

Section 26 of the act provides for annual payments to the Treasury of any power or nonpower proceeds not needed for the operation of dams and reservoirs, the operation of the power program, or the manufacture and distribution of fertilizers. TVA had paid \$41.7 million from nonpower proceeds under this provision through June 30, 1975.

In fiscal year 1976 TVA will be required to pay the Treasury from power proceeds \$65.1 million as a return on the \$995.8 million unpaid appropriation investment in power facilities as of July 1, 1975, (based on an average interest rate of 6.533 percent being paid by the Treasury on its total marketable public obligations) and \$20 million as a repayment of that investment.

BORROWING AUTHORITY

TVA is authorized, under section 15d of the act, to issue and sell bonds, notes, and other evidences of indebtedness up to \$5 billion outstanding at any one time to help finance its power program. Section 15d states that the time of issuance and the maximum interest rates to be borne by the obligations are subject to approval by the Secretary of the Treasury, who is authorized to purchase TVA interim obligations up to \$150 million

outstanding at any one time. Debt service on these obligations is payable solely from TVA's net power proceeds and has precedence over repayments of the appropriation investment and payments of a return on investment to the Treasury.

Outstanding notes and bonds totaled \$3.660 billion at June 30, 1975, an increase of \$865 million, or 31 percent, over the June 30, 1974, amount. A bill (H.R. 9472) has been introduced in the Congress to amend section 15d of the TVA Act which, if passed, would increase from \$5 billion to \$15 billion the amount of power revenue bonds that TVA is authorized to have outstanding.

Section 3.4 of the Basic Tennessee Valley Authority Power Bond Resolution adopted October 6, 1960, prohibits any increase in outstanding bonds unless a power income test specified in the resolution is met. To meet the test, net power income for the last 5 fiscal years must have aggregated at least:

\$200 million

plus

\$15 million for each one-quarter of 1 percent (or major fraction thereof) by which the interest on Treasury borrowings has averaged more than 3.25 percent during the 5 years.

TVA met the minimum net income requirement for the 5 years ended June 30, 1974, and sold \$800 million in bonds in four issues, resulting in a net increase of \$750 million in outstanding bonds during fiscal year 1975. TVA's net power income for these 5 years aggregated \$518 million, and the minimum net power income requirement for that period was \$335 million.

Short-term notes payable to the Federal Financing Bank totaled \$635 million at June 30, 1975, as compared to \$570 million payable to the public at June 30, 1974. Short-term notes payable to the Treasury at June 30, 1975, totaled \$150 million, an increase of \$50 million since June 30, 1974.

All bonds and notes issued by TVA during the year are payable to the Federal Financing Bank and the Treasury.

FUEL SUPPLY AND COST

TVA generated a total of 102.6 billion kilowatt-hours of electricity during fiscal year 1975. Expenses incurred in producing the electricity totaled \$750.8 million of which \$455.4 million, or about 61 percent, represents the cost of fuel. A table showing the kilowatt-hours of electricity generated by each type of powerplant during the year and the cost of fuel associated with each follows.

			Fu	el cost
	Generati	on		Average per
	Kilowatt-hours	ilowatt-hours Percent '		kilowatt-hour
	(billions)		(millions)	(mills)
Coal-fired				
steam	71.7	69.9	\$435.2	6.069
Hydroelectric	23.0	22.4	· -	-
Nuclear	7.4	7.2	7.1	1.525
Gas turbine	0.5	0.5	<u>13.1</u>	25.879
Total syste	m <u>102.6</u>	100.0	\$ <u>455.4</u>	

A scarcity of generating fuels and their increasing cost pose a major problem to TVA in its effort to provide a continuous supply of low-cost electricity. In fiscal year 1975 TVA steamplants burned 33.1 million tons of coal which, because of a shortage of coal, was 4.3 million tons less than that burned in the previous year. TVA estimates that its steamplants will require at least 40 million tons of coal a year well into the next decade.

By 1984 TVA expects to also need about 9 million pounds of uranium concentrates each year to operate 17 nuclear units that are to be in commercial operation by that time.

Coal

TVA's policy is that, when the coal stockpile at any steamplant is insufficient for 60 days' continuous operation, an emergency exists and contracts may be made by negotiation in lieu of advertising. TVA attempts to maintain a 60- to 90-day reserve stockpile at its steamplants in case of interruptions in coal production or transportation.

As a result of a widespread shortage of coal, the poor delivery performance of some of TVA's coal suppliers, and a coal miners' strike in November and December 1974, TVA's stockpile of coal dropped from a 67-day supply on

July 1, 1974, to a 38-day supply on December 31, 1974. As a result, TVA announced that it might require electric power curtailments during the 1974-75 winter season because of its decreasing coal stockpiles and the difficulty in obtaining additional coal supplies. TVA requested its power customers to voluntarily reduce their use of electricity by 20 percent to conserve coal and prepared a mandatory emergency energy reduction program to be implemented if required. Details on TVA's coal shortage are contained in our report (B-114850, Nov. 4, 1974) prepared at the request of a Member of Congress.

After the coal miners' strike ended in December 1974, TVA rapidly rebuilt its coal inventory through new coal purchases, improved coal deliveries, favorable conditions for hydroelectric generation, and a high output at that time of two nuclear units at Browns Ferry Nuclear Plant. By June 30, 1975, TVA's coal inventory had increased to a 108-day supply, as shown in the chart on the following page.

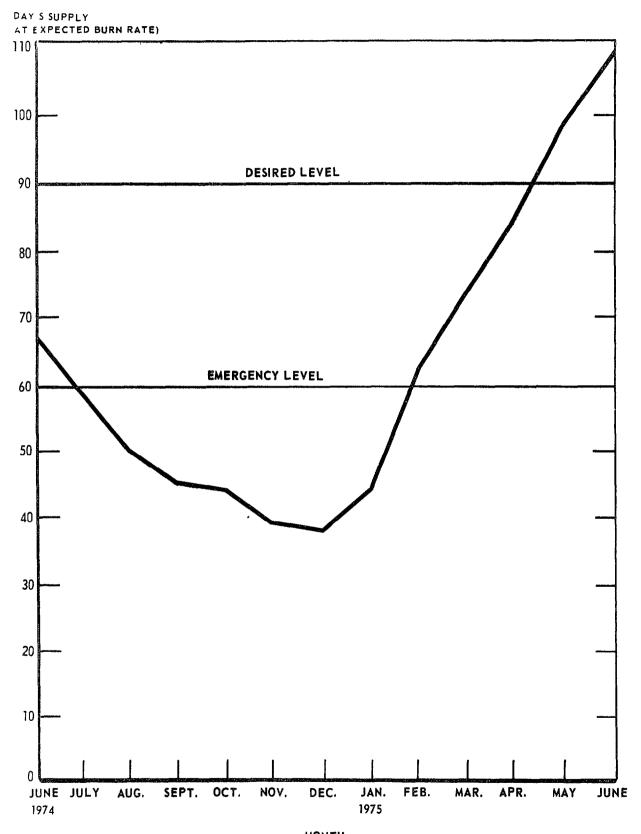
As a result, TVA did not have to implement the energy reduction program. On April 1, 1975, the Board suspended the emergency authority to purchase coal by negotiation and TVA resumed advertised purchases.

Although the coal shortage ended during the latter half of fiscal year 1975, TVA continued to pay high prices for coal. For example, the average cost of coal delivered to TVA's steamplants increased from \$9.59 a ton in July 1974, to \$14.70 in January 1975, to \$17.51 at June 1975. Overall, the average delivered cost was \$14.71 a ton during fiscal year 1975—a 72-percent increase from 1974 and a 97-percent increase from 1973.

To protect against future coal shortages, TVA is (1) acquiring additional coal reserves, (2) carrying higher levels of coal inventory, and (3) considering the feasibility of acquiring coal transportation equipment. TVA is also continuing its policy of awarding long-term contracts for coal.

Uranium

By 1984 TVA's nuclear system is to include 7 nuclear plants with a total of 17 units, having a generating capacity of 21.6 million kilowatts or about 45 percent of TVA's power supply. Through 1990 the 17 units will require a total of 116 million pounds of uranium concentrate.



MONTH
(AS OF LAST DAY OF EACH MONTH)

TVA has made purchase commitments to meet most of its estimated uranium requirements through 1980. To insure a supply of uranium beyond 1980, TVA has 13 long-term contracts providing for the exploration and mining of about 600,000 acres in the Midwest. TVA also owns or controls two uranium mills to be operated by independent contractors. It also has long-term purchase commitments for uranium through 1990. TVA's requirements for uranium concentrates and the supply to be available from inventory or purchase commitments are shown below.

Period	Projected requirement	Inventory and purchase commitment		tfall Percent
	(mi	llions of pounds)		
1976-80 1981-85 1986-90	23.6 47.6 45.1	23.5 13.5 7.5	0.1 34.1 37.6	0.4 71.6 83.4
Total	<u>116.3</u>	44.5	<u>71.8</u>	61.7

TVA expects the shortfall of 71.8 million pounds to be met primarily through uranium production under its contracts and, after 1984, through recycling uranium.

On September 8, 1975, one of the TVA nuclear fuel contractors, Westinghouse Electric Corporation, announced that it could not fully perform in accordance with its uranium supply contracts. Westinghouse advised that the uranium it had available would be allocated among its present customers and among potential customers with whom it had been negotiating. On October 20, 1975, TVA instituted a suit in the U.S. District Court for the Eastern District of Tennessee to have its two contracts with Westinghouse enforced and to prevent Westinghouse from disposing of the uranium covered by the contracts.

CHAPTER 3

CONSTRUCTION

At June 30, 1975, the recorded cost of TVA's property, plant, and equipment was \$5.995 billion, an increase of \$849 million from June 30, 1974. The balances at June 30, 1975, and the increases from the end of the prior fiscal year follow.

	Balance June 30, 1975	Increase
	(000 omi	tted)
Completed plant, net Construction and investiga-	\$3,990,011	\$609,578
tions in progress Nuclear fuel, net	1,835,750 169,077	200,000 <u>39,134</u>
Total	\$5,994,838	\$ <u>848,712</u>

Eighty-nine percent of the nearly \$6 billion of fixed property represents the book value of TVA's power program assets. Ninety-three percent of the cost of construction and investigations underway at June 30, 1975, represents future power facilities.

TVA's installed power generating capacity totaled 26.7 million kilowatts at June 30, 1975, an increase of 3.4 million kilowatts, or about 15 percent, over the June 30, 1974, capacity. An increase of 2.3 million kilowatts resulted from TVA's acceptance for commercial operation of one unit of the Browns Ferry Nuclear Plant on August 1, 1974, and a second unit on March 1, 1975. TVA also accepted 16 combustion turbine units, having a generating capacity of 1.1 million kilowatts, at the Johnsonville steamplant on June 1, 1975.

On March 22, 1975, as a result of a fire in electrical control cables, both units of the Browns Ferry plant, were shut down. TVA expects to have the two units in service in early 1976.

To meet projected increases in power demands, TVA plans to expand its power supply from 26.7 to 47.9 million kilowatts by June 30, 1984. Of the increase in capacity, 19.3 million kilowatts, or 91 percent, will be additional nuclear generating capacity. By 1984, 45 percent of TVA's generating capacity will be in nuclear-powered generating plants, compared to 9 percent at June 30, 1975. Approximately 1.9 million kilowatts of peaking capacity—units

normally used only during periods of highest power demands-is being added through a pumped-storage hydroelectric plant and additional gas turbines. A table summarizing capacity, schedule, and cost data for the major additions is shown on the next page.

Four turbine units at the Gallatin steamplant were essentially completed at June 30, 1975.

Commercial operation of unit 3 at Browns Ferry Nuclear Plant, near Athens, Alabama, was originally scheduled to begin in October 1972. However, due to design revisions, scope modifications, and delays in repairing damage caused by fire to units 1 and 2, the estimated commercial operation has been revised to April 1976. Commercial operation dates are also being rescheduled for the nuclear units at Sequoyah, Bellefonte, and Hartsville plants. In fiscal year 1975 estimated completion dates of the nuclear units under construction were extended from 3 to 12 months. The major reasons for delays were late delivery of equipment and material as well as problems with manpower scheduling.

Commercial operation of the four units of the Raccoon Mountain plant will be delayed by 2 years because of metal-lurgical problems in the turbine stay rings. The turbine manufacturer will replace the stay rings, and commercial operation was rescheduled for 1978.

In fiscal year 1975 TVA's construction expenditures under the power program totaled \$944 million. The estimated cost to complete power projects is \$9.650 billion.

	Total		Scheduled commercial service date				tes
	estimated		Nameplate			Fis	cal
<u>Plant</u>	plant cost	Unit	capacity	Orig	<u>inal</u>	<u>year</u>	1975
	(millions)		(kilowatts)				
Gallatin gas turbine	\$ 37	1-4	325,200	June	1975	July	1975
Browns Ferry nuclear	a/ 815	3	1,152,000	Oct.	1972	Apr.	1976
Sequoyah nuclear	675	1	2,441,160	Oct.	1973	Sept.	1977
		2	• •	Apr.	1974	May	1978
Raccoon Mountain pumped				_		4	
storage	240	1	1,530,000	Sept.	1974	Feb.	1978
3		2	, ,	Dec.	1974	Apr.	1978
		3		Mar.	1975	June	1978
		1 2 3 4		June	1975	Aug.	1978
					_, , ,		
Watts Bar nuclear	805	1	2,539,800	Oct.	1976	Nov.	1978
		2	2,000,000	Apr.	1977	Aug.	1979
Bellefonte nuclear	1,000	1 2 1 2	2,664,000	July	1977*	June	1980
		2	_,	Apr.	1978	Mar.	1981
Proposed Hartsville		_		L			
nuclear	2,500	1	5,148,000	Apr.	1979	Dec.	1981
		1 2 3 4		Apr.	1980	Dec.	1982
		3		Oct.	1979	June	1982
		4		Oct.	1980	June	1983
Proposed additional							
nuclear (note b)	3,500	1-4	5,388,000	1982	- 84	1983	- 84
Total	\$9 , 572		21,188,160				

 $[\]underline{a}$ /Includes the cost of units 1, 2, and 3 because no breakout of the cost for unit 3 is available. Other data presented is for unit 3 only.

 $[\]underline{b}/\text{Preliminary}$ data based on one plant at an Eastern site and one plant at a Western site, each plant having two nuclear units.

CHAPTER 4

GENERAL RESOURCE DEVELOPMENT

the unified and comprehensive development of resources in the Tennessee Valley and adjacent areas. TVA combines its experience and techniques with that of State and local governments, developmental organizations, and citizen groups to assist in planning the development of local resources to meet specific social and economic needs.

As a part of its general resource development efforts, TVA carries out a tributary area development program through which it intensifies and tailors its developmental efforts to fit specific needs of local areas. An Office of Tributary Area Development evaluates the resource development potential in a locality and conducts demonstrations and local assistance programs aimed at achieving the locality's development potential. The Office coordinates the activities of 28 TVA offices and divisions, about 40 tributary area organizations, and numerous individuals. In 1975 there were about 1,600 resource development projects underway throughout the Tennessee Valley region. Forty-seven persons were assigned to the Office of Tributary Area Development at June 30, 1975, and its operating costs totaled about \$2 million in fiscal year 1975.

Programs carried out directly by the Office of Tributary Area Development included: solid waste management, collection and recycling of abandoned automobiles, country wide fire protection, and local applications of computer techniques. TVA also demonstrated an energy conservation project involving mass transit and continued the operation townlift program.

SOLID WASTE MANAGEMENT

TVA began assisting local governments in planning and implementing refuse collection systems as well as siting and designing sanitary landfills in 1969. The purpose of the program is to prevent indiscriminate dumping of refuse and to help rural communities comply with increasingly stringent solid waste disposal requirements.

At the request of local governments, TVA prepares feasibility studies which include the design of collection routes; selection of bulk container locations; equipment specifications; and cost estimates for the purchase, operation, and maintenance of equipment. TVA normally recommends that bulk containers be strategically placed

throughout a county and that refuse be collected and transported weekly to a centrally located sanitary landfill. After completion of a feasibility study, TVA continues to work with the local government in implementing a waste collection system. TVA also works with other Federal agencies, State and local health departments, and development districts to coordinate administrative and grant or loan agreements.

TVA provides technical assistance to local governments for sanitary landfills including (1) feasibility studies for proposed landfill sites, (2) landfill designs and construction plans, (3) on-the-job training for equipment operators, and (4) assistance in closing substandard disposal sites.

As of June 1975 TVA had completed 41 projects for refuse collection systems, 14 projects were underway, and 33 requests for assistance were pending. TVA had also assisted in 56 solid waste disposal projects, including sanitary landfills and dump closings, and 20 additional projects were in process. Forty requests for TVA assistance in establishing sanitary landfills were pending. The total cost of assisting local governments in solid waste management projects was about \$129,000 in fiscal year 1975.

COLLECTION AND RECYCLING OF JUNK CARS

To assist in collecting and recycling of abandoned vehicles, TVA began a demonstration program in junk car removal in 1970. At the end of fiscal year 1975, TVA terminated the program. More than 42,000 junk cars had been collected under TVA-sponsored projects. Total cost for the 5-year program was \$152,000.

Because of high transportation cost, it is not economically feasible for private firms to collect junk cars in sparsely populated areas. In response to this problem, TVA developed an inexpensive method of transporting the vehicles to a central location. After about 200 junk cars are accumulated, it becomes feasible for a private firm to bring a portable crusher to the site. The crushed vehicles are then transported to a shredding facility. Metal balls produced by the shredder are fed into an electric-arc steel furnace and recycled into new steel products.

After designing an inexpensive retrieval vehicle, TVA began assisting rural counties in organizing local

collection programs, identifying vehicle concentration sites, and contracting with crusher operators for disposing of junk cars. To stimulate local interest TVA conducted demonstrations throughout the Tennessee Valley. Local governments leased TVA's retrieval equipment, provided local funds for operating and maintaining the equipment, and obtained title releases for abandoned vehicles. TVA conducted 60 such demonstrations ranging in length from 10 weeks to 6 months.

In response to requests from outside the Tennessee Valley, TVA published a 24-page pamphlet describing junk car recycling, planning and organizing a collection and disposal program, and equipment needs and capabilities. TVA received over 900 inquiries about the program from all 50 States, the Virgin Islands, Canada, and Australia. Through a cooperative agreement with Philadelphia, Pennsylvania, TVA also demonstrated that its vehicle retrieval methods would be effective in urban as well as rural areas.

RURAL FIRE PROTECTION

Fire protection is generally not available in rural areas because of problems associated with firefighting in those areas. Through a rural fire protection program, TVA demonstrates how rural counties can operate an effective fire protection system at relatively low cost. TVA also provides assistance to counties in organizing and operating rural fire departments tailored to the special needs of rural areas.

TVA assistance is available to counties throughout the Tennessee Valley. After receiving a request for assistance, TVA studies the county by examining maps of the area and driving the major roads of the county. TVA prepares a system design and operation plan for presentation to the county court. After the plan is adopted and local funds are available, TVA provides technical assistance in fabricating the firefighting and related equipment and in training local volunteers.

Under TVA's system design a county is divided into several fire districts based on population distribution, existing road network, and physiographic features. Seven or more volunteer firemen are required in each district and firefighting equipment is strategically placed throughout the district. Each fireman is assigned a pocket radio receiver and, when responding to an alarm, designated firemen go directly to the fire and others bring the heavy equipment from the fire station.

To provide a supply of water for rural firefighting, TVA designed and constructed mobile firefighting equipment geared to the needs of rural firefighting. The equipment includes an attack tanker, a quick-response minipumper, a pump and reel truck for delivering water up to 1 mile, a pocket-pager device, and firefighting kit for each volunteer fireman.

During fiscal year 1975 TVA provided fire protection assistance to 14 rural counties. Capital outlay ranged from about \$60,000 to \$120,000. In all but one county, TVA's cost was limited to salary and related expenses of its own employees. TVA provided one county with firefighting equipment costing about \$12,000 for use in the initial demonstration.

COMPUTER ASSISTANCE

TVA provides technical assistance to communities in organizing and developing the use of computer services. Among the services offered by TVA are computer feasibility studies, computer cooperatives, and development of software packages.

At the request of local governments in the Tennessee Valley, TVA evaluates their data processing needs, determines the feasibility of acquiring computer equipment, and identifies the processing applications to be computerized. TVA also provides technical assistance to local governments in obtaining computer equipment.

Computer cooperatives are sometimes formed to permit groups of local governments to share computer time with an organization that has a computer system and available processing capacity. TVA provides technical assistance in organizing the cooperative, identifying for each participant the functions that are to be computerized, and defining the financial responsibilities of each participant. As the cooperative develops, TVA offers further assistance in developing computer software packages and provides other services as requested. A computerized general ledger and budgetary accounting system designed by TVA is available to those smaller communities unable to develop their own system. TVA also provides computerized mapping services to local governments to improve efficiency through more accurate methods of siting public schools, routing school buses, and planning other municipal services.

In fiscal year 1975, 11 local governments adopted the general ledger and budgetary system designed by TVA. TVA estimates that 40 to 50 communities will be using the TVA-designed system by June 1976.

EMPLOYEE TRANSPORTATION

In fiscal year 1975 TVA had several programs underway to encourage its employees to conserve energy through mass transit. Two of these programs involve van pooling and mass transportation demonstration.

TVA's van pool program is a nonprofit, cooperative venture between TVA and the TVA employee credit union in Knoxville, Tennessee, to provide transportation to and from work for employees who live in outlying areas not served by conventional mass transit systems. In June 1974 the credit union leased six 12-passenger vans from a private corporation and formed a committee to manage the van pool operations. Passengers are charged a fare ranging from \$20 to \$28 a month, and the program is basically self-financing. TVA paid initial start-up costs and provides limited administrative services. Thirty vans are to be added to the fleet in fiscal year 1976 and will be used primarily to transport TVA employees to and from construction sites and to establish a van pooling program for TVA employees in Chattanooga, Tennessee.

TVA also has a 2-year demonstration project to encourage employees to conserve energy through mass transportation. TVA provides financial assistance in the form of subsidized fares for bus and van pool riders and free parking for car pools, handicapped employees, and motorcycle riders. According to TVA, the demonstration has assisted the local municipally owned transit company and two private bus lines, and has significantly increased ride-sharing among TVA employees. TVA estimates that the effort will conserve about 400,000 gallons of fuel in calendar year 1975.

OPERATION TOWNLIFT

TVA's operation townlift program, initiated in 1963, is designed to improve the quality of urban life in small towns and cities in rural areas of the Tennessee Valley. According to TVA, smaller communities are often confronted with many problems related to rapid urbanization involving such things as traffic regulation, parking, industrial and commercial development, housing, and recreation. The operation townlift program is designed to help smaller communities adjust to rapid urbanization.

approach whereby economists, city planners, architects, and engineers pool their expertise to develop preliminary plans for community improvement.

Typically, in the first phase of technical planning, an economic analysis is made to identify the strengths and weaknesses of the community's overall economy. TVA planners then work with State or regional planning commissions to develop a concept plan that is consistent with the community's overall economic development. Depending on local needs, the community may receive an economic report, a planning report, and sketches showing the impact of adopting certain recommendations. As of June 1975, TVA had prepared plans for 194 communities, was working on plans for about 30 communities, and had 20 requests pending.

CHAPTER 5

INTERNAL AUDITING

TVA's auditing branch is in the division of finance and consists of an internal audit section and a voucher examining section. The branch makes interim and yearend audits of TVA's financial transactions, accounts, and reports, including evaluations of internal control; reviews contractor's financial records relating to work performed or services provided to TVA under cost-reimbursable contracts; examines and certifies for payment vouchers for materials, services, and travel; and reviews the administration of travel regulations. A distributor accounting section, also in the division of finance, is responsible for review and appraisal of the financial operations of the 160 distributors of TVA power.

INTERNAL AUDITS

TVA's internal audit staff includes a section supervisor, three audit supervisors, and 14 auditors. The staff's average experience with TVA is about 7 years, and six of the staff are certified public accountants. In fiscal year 1975, the staff's audit effort was distributed as follows.

	<u>Staff-days</u>	Percentages
Interim work	1,860	57
Yearend audits	804	24
Contract/special audits	611	19
	<u>3,275</u>	100

Interim audits are made of nine separate accounting functions on an unannounced, irregular basis and encompass the interval since the last audit of the function. Yearend audits are performed in July and include tests and verification of accounting records and data supporting TVA's annual financial statements.

The chief of the auditing branch addresses his audit reports to the comptroller and a copy is furnished to the manager of the accounting office involved. The manager is required to furnish a written reply to the comptroller within 90 days. The internal audit staff performs followup work during the next scheduled audit to determine whether satisfactory corrective action has been taken.

Contract audits, performed semiannually or annually, are made to determine compliance with contract terms and whether contractor claims for payment are proper. A report

on each audit is addressed to the comptroller, and a copy is furnished to the division or office responsible for administering the contract. In fiscal years 1974 and 1975, TVA saved \$431,800 and \$884,700, respectively, as a result of price adjustments recommended by the audit staff.

VOUCHER AUDITS

The voucher examining section consists of a section supervisor, an accounting staff officer, and ll voucher examining officers. The section examines and certifies all vouchers of certain amounts and purposes before the vouchers are paid. Other vouchers are certified by the section or by the accounting offices and are audited by the section before or after payment, depending on the amounts involved, using statistical sampling and other methods. The audits include verification of rates, prices, and discounts shown on the vouchers and compliance with applicable laws, policies, procedures, and legal opinions of TVA's general counsel.

In fiscal years 1974 and 1975, adjustments to vouchers examined by the section saved TVA about \$1.8 million and \$1 million, respectively.

DISTRIBUTOR AUDITS

TVA has 11 field accountants and a section supervisor responsible for onsite, periodic reviews and appraisals of the financial activities of TVA's 160 power distributors. The average audit experience of the staff is about 9 years, and five are certified public accountants.

Each field accountant contacts about 18 to 20 distributors each month and normally spends about 1 day at a distributor. The accountants implement a portion of a standard program during each visit, and about 2 years is required to complete the entire program. Their work is concerned primarily with an appraisal of the distributor's accounting system, compliance with the terms of the contract between TVA and the distributor, and verification of the distributor's monthly and annual reports. The financial statements submitted to TVA by each distributor are also audited by a firm of certified public accountants.

CHAPTER 6

SCOPE OF EXAMINATION

AND

OPINION ON FINANCIAL STATEMENTS

Our examination of TVA's balance sheet as of June 30, 1975 and 1974, and the related statements of power and non-power programs and of changes in financial position for the years then ended (exhibits I through IV) was made in accordance with generally accepted auditing standards and included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

As provided by section 15d(c) of the TVA Act, TVA employs a firm of certified public accountants to audit its accounts and financial statements for each fiscal year, to facilitate its issuance and sale of revenue bonds. This audit does not take the place of the audit required by us under the Government Corporation Control Act. As a part of the examination, we observed and tested the firm's audit work, and our satisfaction with its quality and scope enabled a substantial reduction in the extent of our own examination.

In our opinion the financial statements (exhibits I through IV) present fairly TVA's financial position at June 30, 1975 and 1974, and the results of its operations and the changes in the financial position of its programs for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

The supplemental information appearing in schedules A to F which has been subjected to audit procedures applied in the examination of the basic financial statements is, in our opinion, fairly stated in relation to the basic financial statements taken as a whole.

EXHIBITS

EXHIBIT I

TENNESSEE VALLEY A THORITY

TA CORPORATION WHOLLY OWNED BY THE UNITED STATES OF AMERICA)
BALANCE SHEETS JUNE 30 975 AND 1974

ASSETS

	Power	program	All programs		
	1975	1974	1975	1974	
		(Thou:	sands)		
PROPERTY, PLANT, AND EQUIPMENT, substantially all at original cost					
Completed plant; schedule A Multipurpose dams; note 1 Single-purpose dams Steam production plants Nuclear production plants Other electric plant Other plant	\$ 491,054 66,115 2,158,152 512,653 1,550,672 	\$ 489,745 65,869 2,137,260 1,369,060 	\$1,017,155 66,115 2,158,152 512,653 1,550,672 175,338 5,480,085	\$1,015,509 65,869 2,137,260 - 1,369,060 173,541 4,761,239	
Less accumulated depreciation and depletion; note 2 Completed plant, net	1,344,468 3,434,178	1,242,414 2,819,520	1,490,074 3,990,011	1,380,806 3,380,433	
Construction and investigations in progress; schedule B and note 3		1,551,961	1,835,750		
Nuclear fuel Less accumulated provision for amortization; note 2 Nuclear fuel, net	183,835 14,758 169,077	133,345 3,402 129,943	163,635 14,758 169,077	133,345 3,402 129,943	
Total property, plant, and equipment	5,317,434	4,501,424	5,994,838	5,146,126	
CURRENT ASSETS					
Cash	153,601	82,723	194,933	111,187	
Accounts receivable	129,519	94,437	137,662	104,358	
Inventories, principally at average cost	273,239	128,681	289,077	136,118	
Total current assets	550,359	305,841	621,672	351,663	
DEFERRED CHARGES					
Unamortized debt expense; note 2	823	891	833	891	
Other	2,198	552	2,198	552	
Total deferred charges	3,031	1,443	3,031	1,443	
Total assets	¹ 5,876,824	14,808,708	¹ 6,619,541	5,499,232	

Wites 1 through 8 following the exhibits are an integral part of the financial statements. We describe the financial statements are an integral part of the financial statements.

LIABILITIES

	Power program		All programs	
	1975	1974	1975	1974
		(Thous	ands)	
PROPRIETARY CAPITAL		ţ		
Appropriation investment; note 4 Total congressional appropriations Transfers of property from other	\$1,383,590	\$1,383,467	\$2,760,900	\$2,683,500
Federal agencies	22,269	21,840 1,405,307	54,867 2,815,767	54,100
Less repayments to General Fund of	1,405,859	1,405,307	2,815,767	2,737,600
the U.S. Treasury; note 5	410,059 995,800	390,059 1,015,248	451,713	431,686
Appropriation investment	995,800	1,015,248	2,364,054	2,305,914
Retained earnings reinvested in the power program; exhibit II	898,407	866,418	898,407	866,418
Accumulated net expense of nonpower programs; exhibit III			659,233*	624,025*
Total proprietary capital	1,894,207	1,881,666	2,603,228	2,548,307
LONG-TERM DEBT				
Principal; note 6	2,875,000	2,125,000	2,875,000	2,125,000
Unamortized discount* and premium, net; note 2	8,130*	8,604*	8,130*	8,604*
Total long-term debt	2,866,870	2,116,396	2,866,870	2,116,396
SHORT-TERM NOTES				
U.S. Treasury; note 6	150,000	100,000	150,000	100,000
Other; note 6	635,000	570,000	635,000	570,000
Unamortized discount; note 2		13,901*		13,901*
Total short-term notes	785,000	656,099	785,000	656,099
OTHER CURRENT LIABILITIES				
Accounts payable	268,202	112,295	286,880	122,429
Employees' accrued leave	14,189	13,431	26,317	24,388
Payrolls accrued	6,960	6,738	9,850	9,530
Interest accrued	41,396	22,083	41,396	22,083
Total other current liabilities	330,747	154,547	364,443	178,430
COMMITMENTS; note 3				<u> </u>
Total liabilities	5,876,824	\$4,808,708	<u>:6,619,541</u>	35,499,232

EXHIBIT II

TENNESSEE VALLEY AUTHORITY POWER PROGRAM NET INCOME AND RETAINED EARNINGS FOR THE YEARS ENDED JUNE 30, 1975 AND 1974

	19′	1975		1974	
	kWh	Amount	kWh	Amount	
	.	(Thousands)			
Sales of electric energy Municipalities and cooperatives Federal agencies Industries Electric utilities Total outside sales Interdivisional Total sales of electric energy Rents Discounts and penalties Other miscellaneous revenues Total operating revenues	64,468,095 19,389,244 21,822,437 115,803 105,795,579 637,607 106,433,186	\$ 737,203 182,523 227,637 1,541 1,148,904 6,663 1,155,567 20,200 293 231 1,176,291	64,182,511 17,388,119 23,790,067 122,191 105,482,888 661,841 106,144,729	\$556,166 121,552 179,767 1,166 858,651 4,992 863,643 20,153 352* 182 883,626	
OPERATING EXPENSES; schedule C Production Fuel Power purchased and interchanged, net Other Transmission Customer accounts Demonstration of power use Administrative and general Payments in lieu of taxes Social security taxes Provision for depreciation Total operating expenses		455,384 135,320 160,047 22,216 534. 1,277 34,004 36,847 5,187 110,322 961,138		332,339 17,337 144,480 20,847 494 1,283 29,907 31,118 4,611 97,083 679,499	
Operating income OTHER INCOME AND DEDUCTIONS Interest income Allowance for funds used (construction and nuclear fuel); note 2 Other, net Total other income and deductions		215,153 63 117,353 232* 117,184		204,127 - 85,992 581* 85,411	
Income before interest charges INTEREST CHARGES Interest on long-term debt Other interest expense; note 2 Amortization of long-term debt discount, expense, and premium, net; note 2 Total interest charges		183,626 44,802 548 228,976		289,538 149,178 33,787 419 183,384	
NET INCOME		103,361		106,154	
Payment of return on appropriation investment; note 5 Increase in retained earnings reinvested		71,372		63,422	
Retained earnings reinvested at beginning of per	iod	866,418		823,686	
Retained earnings reinvested at end of pe	riod	\$ 898,407		\$866,418	

Notes 1 through 8 following the exhibits are an integral part of the financial statements.

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^{*}Deduct

EXHIBIT III

TENNESSEE VALLEY AUTHORITY

### NATE RESOURCES DEVELOPMENT Navigation operations Studies and investigations Operation and maintenance of facilities Total expense of navigation operations Fload control operations Studies and investigations Operation and maintenance of facilities Total expense of navigation operations Fload control operations Studies and investigations	NONPOWER PROGRAMS	Exercises and services of the		
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Studies and investigations 363 894 194 194 194 194 194 194 194 194 194 194 194 194 194 194 195	Flood control operations	Ex.		
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Recreation development Recreation development Recreation and maintenance of facilities 1,792 1,846 Coperation and maintenance of facilities 1,792 1,546 Total expense of recreation development 2,535 2,511 Regional water quality management 1,329 1,546 Fisheries and waterfowl resources development 629 540 Freliminary surveys and engineering 187 663 Total expense of water resources development 17,012 17,223 FERTILIZER AND MUNITIONS DEVELOPMENT Developmental production Cost of products distributed 37,241 26,336 General expenses Adjustment on retirements of manufacturing plant and equipment, net 317* 99* Administrative and general 560 525 Other 392 638 Total general expenses 520 2,068 Total general expenses 520 2,068 Total production expense 37,761 28,404 Less transfers and sales of products Transfers to TWA programs, at market prices Fertilizer industry demonstrations 645 431 Agricultural development 541 422 Other 152 95 Direct sales 1,313 431 Total transfers and sales 1,313 431 production 2,550* 4,550 Fertilizer industry demonstrations 37,660 22,475 Educational distribution expense 37,136 22,057 Less industry payments for fertilizer 37,136 22,057 Less industry payments for fertilizer 37,136 22,057				
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Fertilizer industry demonstrations 37,660 22,475 Farm test demonstrations 645 431 Agricultural development 541 422 Other 152 95 38,998 23,423 Direct sales 1,313 431 Total transfers and sales 40,311 23,854 Income* or expense, net, of developmental 2,550* 4,550 Fertilizer introduction 2,550* 4,550 Fertilizer industry demonstrations 37,660 22,475 Educational distribution expense 1,470 1,392 Less industry payments for fertilizer 37,136 22,057 1,900 1,900 1,900				
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Direct sales				422
Direct sales	Other		152	95
Income* or expense, net, of developmental production 2,550* 4,550 Fertilizer introduction Fertilizer industry demonstrations Fertilizers used 37,660 22,475 Educational distribution expense 1,470 1,392 Less industry payments for fertilizer 37,136 22,057	Diment color			23,423
Income* or expense, net, of developmental production 2,550* 4,550 Fertilizer introduction Fertilizer industry demonstrations Fertilizers used 37,660 22,475 Educational distribution expense 1,470 1,392 Less industry payments for fertilizer 37,136 22,057			1,313	23 857
production 2,550* 4,550 Fertilizer introduction Fertilizer industry demonstrations Fertilizers used 37,660 22,475 Educational distribution expense 1,470 1,392 39,130 23,867 Less industry payments for fertilizer 37,136 22,057 1,000 1,000 1,000		•		23,077
Fertilizer introduction 37,660 22,475 Fertilizers used 37,660 22,475 Educational distribution expense 1,470 1,392 Less industry payments for fertilizer 37,136 22,057 1,000 1,000 1,000			2,550*	4,550
Fertilizer industry demonstrations 37,660 22,475 Educational distribution expense 1,470 1,392 Less industry payments for fertilizer 37,136 22,057 1,000 1,000 1,000	Fertilizer introduction			
Educational distribution expense 1,470 1,392 39,130 23,867 Less industry payments for fertilizer 37,136 22,057 1,000 1,000 1,000				
Educational distribution expense 1,470 1,392 39,130 23,867 Less industry payments for fertilizer 37,136 22,057 1,000 1,000				22,475
Less industry payments for fertilizer 37,136 22,057	Educational distribution expense		1,470	1,392
1 001 1 210	Less industry narments for fortilizar			
*Deduct	_ :			
	*Deauct		<u> +977</u>	

EXHIBIT III

TENNESSEE VALLEY AUTHORITY

NONPOWER PROGRAMS

NET EXPENSE AND ACCUMULATED NET EXPENSE

FOR THE YEARS ENDED JUNE 30, 1975 AND 1974

	1975	1974
	(Thousands)	
FERTILIZER AND MUNITIONS DEVELOPMENT - continued Fertilizer introduction - continued Farm test demonstrations outside the Valley Fertilizers used	\$ 645	\$ 431
Planning and supervision	692 1,337	φ 431 661 1,092
Less farmer payments for fertilizer	<u> </u>	283 809
Net expense of fertilizer introduction	2,776	2,619
Research and development Net expense of fertilizer and munitions development	6,409	5,650 12,819
GENERAL RESOURCES DEVELOPMENT Agricultural projects		
Agricultural resource development Fertilizers used	541	416
Planning and supervision	918 1,459	94 <u>6</u> 1,362
Less farmer payments for fertilizer	456 1,003	356 1,006
Development investigations and general expenses Net expense of agricultural projects	798	604 1,610
Forest and wild land resources development Strip mine reclamation demonstrations Tributary area development Interagency health services demonstrations Regional economic studies Townlift community improvement Cooperative training demonstrations Minerals resources projects Environmental quality projects	1,514 313 1,991 160 601 788 771 287 319	1,406 116 2,209 120 636 744 731 269 492
Net expense of general resources development	8,545	8,333
LAND BETWEEN THE LAKES OPERATIONS .	2,500	2,498
VALLEY MAPPING AND REMOTE SENSING	454	482
OTHER EXPENSE, NET	62	134
NET EXPENSE; schedule D	35,208	41,489
Accumulated net expense at beginning of period	624,025	<u>582,536</u>
Accumulated net expense at end of period	\$659,233	\$624,025

Titles 1 through 8 following the exhibits are an integral part of the financial statements.

CHANGES IN FINANCIAL POSITION

FOR THE YEARS ENDED JUNE 30, 1975 AND 1974

	Power p		All programs		
	1975	1974	1975	<u> 1974 </u>	
		(Thous	ands)		
SOURCE OF FUNDS					
Program sources Net power income; exhibit II	\$ 103,361	\$ 106,154	\$ 103,361	\$ 106,154	
Add items not requiring funds; note a	1,059	12,404	1,059	12,404	
Funds from power operations	104,420	118,558	104,420	118,558	
Sale of power facilities	1,375	1,904	1,375	1,904	
Funds from power program; note b	105,795	120,462	105,795	120,462	
Net expense of nonpower programs; exhibit III			35 , 208*	41,489*	
Add items not requiring funds; note a			7,247	8,283	
Funds used in nonpower operations			27,961*	33,206*	
Sale of nonpower facilities			1,167	761	
Funds used in nonpower programs			26,794*	32,445*	
Debt sources					
Long-term bonds					
Issues	800,000	450,000	800,000	450,000	
Redemptions	50,000*	100,000*	50,000*	100,000*	
Short-term notes					
Issues	2,070,000	1,375,000	2,070,000	1,375,000	
Redemptions	1,955,000*	1,285,000*	1,955,000*	1,285,000*	
Total debt sources	865,000	440,000	865,000	440,000	
Other sources					
Congressional appropriations	139	173	77,400	45,676	
Property transfers	429	323	767	399	
Contributions in aid of construction					
(reclassified in 1974 to property,		001+		003 *	
plant, and equipment)		901*	<u> </u>	901*	
Total source of funds	\$ 971,363	\$ 560,057	\$1,022,168	\$ 573,191	
DISPOSITION OF FUNDS Expended for plant and equipment, excluding allowance for funds used Less:	\$ 826,831	\$ 447,788	\$ 869,681	\$ 478,795	
Depreciation and amortization of nuclear fuel charged to construction and clearing accounts	6,202	4,925	8,312	7,190	
Cost of removing retired facilities and					
salvage from retained materials	2,764 817,865	3,586	2,404	3,631	
Payments to U.S. Treasury; note 5	017,005	439,277	858,965	467,974	
Return on appropriation investment	71,372	63,422	71,372	63,422	
Repayment of appropriation investment	20,000	20,000	20,027	20,012	
	91,372	83,422	91,399	83,434	
Unamortized debt discount and expense and other				-	
deferred charges Mine and mill development cost	1,693		1 602		
Long-term discount	1,093	2,411	1,693	2,411	
Short-term discount	13,901*	6,771	13,901*	6,771	
Debt expense	16	250	16	250	
	12,192*	9,432	12,192*	9,432	
Changes in working capital (increase or decrease*)	70 070	10.0/7	00.71.6		
Cash Accounts receivable	70,878 35,082	19,367 23,104	83,746 33,304	1,105 25,117	
Inventories	144,558	12,091*	152,959	10,355*	
	250,518	30,380	270,009	15,867	
Less other current liabilities	176,200	2,454	186,013	3,516	
ı	74,318	27,926	83,996	12,351	
Total disposition of funds	t 071 242	= E40 057	21,000,160		
rotar disposition of lunas	\$ 971 , 363	<u>\$ 560,057</u>	\$1,022,168	\$ 573,191	

*Deduct

EXHIBIT IV

TENNESSEE VALLEY AUTHORITY CHANGES IN FINANCIAL POSITION FOR THE YEARS ENDED JUNE 30, 1975 AND 1974

NOTES:

a. Items not requiring funds:

	Powe	er	Nonpower		
	1975	1974	1975	1974	
		(Thous	ands)		
Provisions for depreciation Provisions for depletion Amortization of nuclear fuel	\$110,322 210	\$9 7, 083 266	\$7,669 10	\$7,370 8	
charged to operations Loss or gain* on retirements and disposals of property, plant,	7,053	-	•	-	
and equipment, net Amortization of long-term debt discount, premium, and expense;	232	581	432*	905	
and deferred charges Allowance for funds used	595	466	-	-	
(construction and nuclear fuel)	117,353*	85,992*	-	-	
	\$ 1,059	\$12,404	<u>\$7,247</u>	\$8,283	

b. Net power proceeds (see note 6) may be derived as follows:

	Year ended June 30				
	1975	1974			
	(Thous	sands)			
Funds from power program . Add back interest charges	\$105,795 228,428	\$120,462 182,965			
Net power proceeds	\$334,223	\$303,427			

Notes 1 through 8 following the exhibits are an integral part of the financial statements.

NOTES TO FINANCIAL STATEMENTS

1. Allocation of cost of multipurpose projects--Section 14 of the TVA Act requires TVA's Board of Directors to allocate the cost of completed multipurpose projects, subject to the approval of the President of the United States. The cost of facilities installed exclusively for a single purpose is assigned directly to that purpose; the cost of multiple-use factures is allocated among the various purposes served.

The total investment of \$1,017,155,000 in completed multipurpose dams at June 30, 1975, is classified as follows:

		Investment		
	Direct	Multiple-use	Total	
		(Thousands)		
Power	\$313,606	\$177,448	\$ 491,054	
Navigation	151,802	137,165	288,967	
Flood control	59 ,65 7	135,221	194,878	
Recreation	, 267 (- 24,427	24,694	
Tributary area development	20	17,542	17,562	
Total	\$525,352	\$491,803	\$1,017,155	

2. Summary of significant accounting policies--Power accounts are kept in accordance with the uniform system prescribed for electric utilities by the Federal Power Commission.

Plant additions and retirements--Additions to plant are recorded at cost, which includes material, labor, overhead, and allowance for funds used. The costs of generation including amortization of nuclear fuel, less credit for the fair value of energy generated during preliminary operations prior to commercial acceptance, are also included in the recorded cost of steam and nuclear generating plants. Except for chemical plant, plant retirements (including original cost and removal cost less salvage) are charged against appropriate accumulated depreciation accounts. Because of the experimental nature of fertilizer and munitions development, losses on early retirement of chemical plant are included in current year operations.

Depreciation and depletion--Straight-line depreciation is provided for substantially on a composite basis. Rates of depreciation are derived from engineering studies of useful life and are reviewed each year. Depletion of coal land and land rights and phosphate land and mineral rights is provided on a unit of production basis.

Allowance for funds used-The practice of capitalizing an allowance `or funds used during construction and during the fabrication of nuclear fuels is followed in the power program. The rate is established at the beginning of each 6-month period on the basis of the cost of borrowings during the preceding 12 months. Rates used were 8.5 percent for each of the two six-month periods during 1975 and 6.5 percent and 7.5 percent, respectively, for the two six-month periods during 1974.

Repairs and maintenance--The cost of current repairs and minor replacements is charged to appropriate operating expense and clearing accounts, and the cost of renewals and betterments is capitalized.

Nuclear fuel amortization--The amortization of nuclear fuel is provided on a unit of production basis. Rates are established to amortize the costs over the useful life.

Operating revenues and energy costs--Revenues from the sale of electric energy, including amounts resulting from the application of an adjustment addendum providing for monthly billing charges to reflect increases or decreases in fuel and purchased power costs, are recorded only when billed. Costs of fuel consumed and of purchased power are reflected in operating expenses as incurred. About \$3.5 million of these costs recorded in fiscal year 1974 were used in calculating the adjustment to power billings for August 1974; and about \$88.8 million of these costs recorded in fiscal year 1975 were used in calculating the adjustment to power billings for July and August 1975.

Borrowing expenses--Expenses, discounts, and premiums on power borrowings are amortized on a straight-line basis over the term of the related securities. Amortization of discount on short-term notes is charged to other interest expense.

Research and development--Research and development costs are expensed as incurred (approximately \$16,475,000\$ in 1975 and \$13,427,000\$ in 1974) except for those costs which relate to specific power program capital projects.

3. <u>Construction of major projects</u>, <u>commitments</u>, <u>and rental expenses</u>—During fiscal year 1976 TVA contemplates expenditures c: \$981,828,000 for major power projects and \$59,378,000 for multipurpose and nonpower projects. Substantial commitments have been incurred for these projects.

On June 22, 1972, the TVA Board of Directors approved a Utility Contribution Agreement with Breeder Reactor Corporation (BRC), a District of Columbia nonprofit corporation. The agreement obligates TVA to pay to Breeder Reactor Corporation the sum of \$21.7 million over a 10-year period with equal annual payments beginning December 31, 1972, and ending December 31, 1961. The payment is on behalf of TVA and its distributors in support of the Nation's first commercial-scale liquid metal last preeder reactor demonstration plant project. At June 30, 1975, the remaining commitment was \$14,105,000.

The total rentals charged to power operating expenses and other operating clearing accounts for the years ending June 30, 1975 and 1974, amounted to approximately \$11,986,000 and \$11,931,000, respectively. At June 30, 1975, the aggregate minimum gross rental commitments of TVA under all noncancelable leases for the periods shown are as icllows:

Year	Amount	Years	Arount
	(Thousands)		(Thousanis)
1976	\$9,829	1981-85	\$ -4,2.0
1977	9,185	198⊶9€	1,776
1978	~ر8,4	1991-95	30
1979	8,2رد	Thereafter	, <u>ž</u> š
1980	ઇ. 2કેલ		

EXHIBIT IV

TENNESSEE VALLEY AUTHORITY

NOTES - CONTINUED

Minimum gross rental commitments include rentals paid under agreements with the City of Memphis, Tennessee, which provide that (1) TVA sells to the City all the power and energy requirements of its electric distribution system, and (2) the City leases to TVA the Thomas H. Allen steam-electric generating plant with an installed capacity of 990,000 willowatts. Each agreement is for a term of 20 years, beginning January 1, 1965. The lease agreement provides for annual rental payments of \$6,000,000 and grants TVA an option to buy the plant for \$2,000,000 at the end of the lease term.

4. Appropriation investment-- hanges in appropriation investment during the years ended June 30, 1975 and 1974, were as

	Power program			All programs				
	1	1975 1974				1975	1974	
				(Thous	ands)	1		
Congressional appropriations, net Transfers of property from other	\$	123	\$	135	\$	77,400	\$	45,676
Federal agencies		429 552		323 458		767 78,167		399 46,075
Less repayments to General Fund of the U.S. Treasury	***************************************	20,000		20,000		20,027		20,012
Increase or decrease* for the period		19,448*		19,542*		58,140		26,063
Balance, beginning of period	1,0	15,248	1,	034,790	2	,305,914	5	,279,851
Balance, end of period	\$ 9	95,800	\$1,	015,248	\$2	,364,054	\$2	,305,914

*Deduct

An additional appropriation of \$87,800,000 as of July 1, 1975, is pending action in the Congress.

5. Payments to the U.S. Treasury—Section 15d of the TVA Act requires the payment from net power proceeds of a return on the net appropriation investment in power facilities plus repayments of such investment, beginning with fiscal year 1961. The amount of return payable during each year is based on the appropriation investment as of the beginning of that year and the computed average interest rate payable by the U.S. Treasury on its total marketable public obligations as of the same date. The repayment schedule calls for payment of not less than \$10 million for each of the first five years (1961-1965), \$15 million for each of the next five years (1966-1970), and \$20 million for each year thereafter until a total of \$1 billion shall have been repaid. The payments required by Section 15d may be deferred under certain circumstances for not more than two years.

Required payments have been made as follows:

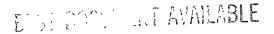
The state of the s

	Return	Repayment (Thousands)	Total
Total to June 30, 1974	\$686,410	\$205,000	\$891,410
Year ended June 30, 1975	71,372	20,000	91,372
	\$757,782	\$225,000	\$982,782

For 1976 the required payments will be \$65,056,000 as a return on the appropriation investment at the computed average interest rate of 6.553 percent and \$20,000,000 as a repayment, a total of \$85,056,000.

In a unition to the payments from net power proceeds, \$27,000 of nonpower proceeds was paid to the U.S. Treasury in 1975 and the provisions of Section 26 of the TVA Act. This brought the total payments from nonpower proceeds to \$41,653,000.

rior to 196., under then existing legislation, TVA paid to the Treasury \$185,059,000 of power proceeds. In addition the repayments indicated in Exhibit I, \$65,072,000 of bonds sold to the Treasury and Reconstruction Finance Corporation in all result 199-1941 have been fully repaid from power proceeds. Section 26 of the TVA Act provides for annual terminate to the Treasury of any power or nonpower proceeds not needed for the operation of dams and reservoirs, the conduct the power process, and the manufacture and distribution of fertilizers.



NOTES - CONTINUED

6. Borrowing authority--Section 15d of the TVA Act authorizes TVA to issue bonds, notes, and other evidences of indebtedness up to a total of \$5 billion outstanding at any one time to assist in financing its power program. Debt service on these obligations, which is pavable solely from TVA's net power proceeds, has precedence over the payments to the U.S. Treasury are rised in note. Thousand outstanding on June 30, 1975, consist of the following:

	(Thousands)
Long-term debt	4 50 000
4.40% 1960 Series A, due November 15, 1985	\$ 50,000
4-5/8% 1961 Series A, due July 1, 1986	50,000
4-1/2% 1962 Series A, due February 1, 1987	45,000
5.70% 1967 Series A, due May 15, 1992	70,000
6-3/8% 1967 Series B, due November 1, 1992	60,000
8-1/4% 1969 Series B, due October 15, 1994	100,000
9% 1970 Series A, due March 15, 1995	100,000
9-1/4% 1970 Series B, due June 15, 1995	50,000
7-1/4% 1971 Series A, due July 1, 1976	100,000
7.30% 1971 Series B, due October 1, 1996	150,000
7% 1972 Series A, due January 1, 1997	150,000
7.35% 1972 Series B, due May 1, 1997	150,000
7.35% 1972 Series C, due July 1, 1997	150,000
7.40% 1972 Series D, due October 1, 1997	150,000
7.35% 1973 Series A, due January 1, 1998	100,000
7.35% 1973 Series B, due April 1, 1998	150,000 150,000
7-3/4% 1973 Series C, due July 1, 1998	100,000
7.70% 1973 Series D, due October 1, 1998	100,000
8.05% 1974 Series A, due January 1, 1999	100,000
8.10% 1974 Series B, due April 1, 1979	300,000
8.50% 1974 Series C, due October 31, 1979 (FFB)	
8.05% 1975 Series A, due January 31, 1990 (FFB)	200,000
8.70% 1975 Series B, due March 31, 2000 (FFB)	200,000
8.35% 1975 Series C, due May 31, 1988 (FFB)	200,000
Total long-term debt	2,875,000
Short-term notes	
U.S. Treasury	150,000
Federal Financing Bank (FFB)	635,000
Total short-term notes	785,000
	\$3,660,000
0.5	1

An additional bond issue, 8.47 percent 1975 Series D, due July 31, 2000, in the amount of \$200,000,000 was sold to the Federal Financing Bank in July 1975.

- 7. Retirement plan-TVA has a contributory retirement plan which covers substantially all of its salaried employees. The cost of currently accruing benefits is funded currently, and the prior service cost is being amortized and funded over a period of 31 years from July 1, 1974. The cost of the plan to TVA for the years ended June 30, 1975 and 1974, was \$20,782,000 and \$18,104,000, respectively. The actuarially computed value of vested benefits of the plan as of June 30, 1974, the latest actuarial valuation date, exceeded the total pension fund assets reflected in the actuarial valuation by approximately \$2,846,000. The TVA Retirement System is exempt from the provisions of the Employee Retirement Income Security Act of 1974. However, if such Act were applicable, there would be no significant effect on the cost of currently accruing benefits, the amortization of unfunded prior service cost, or vested benefits.
- 8. Litigation--On July 5, 1972, the Environmental Defense Fund and other plaintiffs filed suit to enjoin TVA from constructing the Duck River project, consisting of the Normandy and Columbia Dams, on various grounds including alleged failure to comply with the National Environmental Policy Act by, among other things, filing an inadequate environmental impact statement for the project. Following a trial on the NEPA issues, all other issues having been decided in TVA's favor by an earlier court order, the District Court found on March 7, 1974, that the environmental impact statement was deficient in four areas and thereafter enjoined construction of the project effective midnight, March 30, 1974. On TVA's motions the District Court subsequently stayed the injunction through June 29, 1974, to enable work on the project to continue while TVA complied with the law. During the period that the injunction was stayed, TVA prepared and circulated a draft supplement to the environmental impact statement addressing the deficiencies found by the court in its March 7 memorandum. TVA filed a final supplement with the Council on Environmental Quality on June 18, 1974. By order entered on November 6, 1974, the District Court held that TVA has fully complied with NEPA with respect to this project. Plaintiff filed a notice of appeal from the District Court's final order of November 6, 1974, to the United States Court of Appeals for the Sixth Circuit. Counsel for TVA believe that plaintiffs' appeal is without basis and that the revised environmental impact statement complies fully with the National Environmental Policy Act.

In December 1973 TVA filed seven condemnation cases in the United States District Court for the Middle District of Tennessee to acquire the major portion (about 1,100 acres) of an electric generating site which is proposed for the Hartsville Nuclear Generating Plant. Three additional cases were filed in 1974. The defendants filed answers in which they raised 26 objections and defenses to the taking. In essence, they were that TVA lacks statutory and constitutional authority to acquire the property; that it is not being acquired for a public use; and that the taking is unnecessary, an abuse of discretion, and in violation of the National Environmental Policy Act. By agreement of the parties, a limited order of possession was entered by the court on February 22, 1974, giving TVA the right to proceed with certain preliminary work upon the properties involved. The issue of TVA's right to take the property was pending at the end of the fiscal year. The defendants in these cases have withdrawn all their objections and defenses to the taking and a final judgement has been entered in each case. The judgement in each case, among other things, awards plaintiff full and complete possession of the property involved in these cases and confirms the withdrawal of the objections and defenses raised and the vesting of the fee simple title to such property in plaintiff.

SCHEDULE A

TENNESSEE VALLEY AUTHORITY

COMPLETED PLANT

JUNE 30. 1975

Power Multipurpose dams System allocation Project allocations Single-purpose dams Steam production plants Nuclear production plants Other electric plant	Assets \$ 431,050,533 60,003,605 66,114,927 2,158,152,335 512,652,580 1,550,672,019	Accumulated depreciation and depletion \$ 166,249,680
Total power	4,778,645,999	1,344,467,947
Navigation Multipurpose dams System allocation Project allocations Single-purpose navigation plant	228,733,691 60,233,204 7,063,239	52,248,667 4,813,346 186,453
Total navigation	296,030,134	57,248,466
Flood control Multipurpose dams System allocation Project allocations Single-purpose flood control plant	180,314,216 14,563,610 2,162,006	37,124,652 572,743 133,193
Total flood control	197,039,832	37,830,588
Tributary area development Multipurpose dams Project allocations Recreation and conservation education Multipurpose dams Project allocations Land Between The Lakes	24,694,528 49,581,826	566,915 428,474 2,802,397
Other recreation plant	1,750,310	128,121
Total recreation and conservation education	76,026,664	3,358,992
Chemical	70,064,923	26,184,149
General	44,715,973	20,417,082
Total	\$5,480,084,975	\$1,490,074,139
Total completed plant Multipurpose dams		
System allocation Project allocations	\$ 840,098,440 <u>177,056,397</u> 1,017,154,837	\$ 255,622,999 14,115,180 269,738,179
Single-purpose dams Steam production plants Nuclear production plants Other electric plant Other plant Total	66,114,927 2,158,152,335 512,652,580 1,550,672,019 175,338,277 \$5,480,084,975	26,170,935 755,959,352 9,799,979 378,554,299 49,851,395 \$1,490,074,139
2002	+7,100,001,717	

SCHEDULE B

TENNESSEE VALLEY AUTHORITY CONSTRUCTION AND INVESTIGATIONS IN PROGRESS JUNE 30. 1975

Construction in progress	Power program	All programs
Generating facilities Browns Ferry Nuclear Plant Sequoyah Nuclear Plant Watts Bar Nuclear Plant Bellefonte Nuclear Plant Proposed Hartsville Nuclear Plant Nuclear plant 7 Nuclear plant 8 Cumberland Steam Plant Johnsonville gas turbine units 1-16 Gallatin gas turbine units 1-4 Raccoon Mountain pumped storage project Total generating facilities	\$ 259,168,550 542,721,247 315,702,418 132,384,129 23,426,611 2,216,537 3,094,860 2,100,973 1,534,843 30,539,224 187,181,476 1,500,070,868	\$ 259,168,550 542,721,247 315,702,418 132,384,129 23,426,611 2,216,537 3,094,860 2,100,973 1,534,843 30,539,224 187,181,476 1,500,070,868
Transmission lines, substations, and other additions to power facilities	210,143,083	210,143,083
Navigation facilities		281,129
Flood control facilities		378,494
Multipurpose facilities Tellico Dam and Reservoir Columbia Dam and Reservoir Normandy Dam and Reservoir Bear Creek water control system Other Total multipurpose facilities Chemical plant Recreation and conservation education facilities Land Between The Lakes Other recreation facilities Total recreation and conservation	310,297 310,297	57,141,139 6,663,978 27,485,239 14,723,165 762,691 106,776,212 3,612,879 6,190,320 453,588
education facilities General plant General construction equipment and materials Other additions to general plant Total general plant	1,047,561 1,047,561	1,045,332 3,486,414 4,531,746
Total construction in progress		1,832,438,319
Investigations for future projects Power facilities Navigation facilities Flood control facilities	2,607,066	117,903 587,334
Total investigations for future projects	2,607,066	3,312,303
Total construction and investigations in progress	\$1,714,178,875	\$1,835,750,622

SCHEDULE C

TENNESSEE VALLEY AUTHORITY

DETAILS OF POWER EXPENSE FOR THE YEAR ENDED JUNE 30, 1975

		Provision for	Total before depreciation		Opera			Other
SUMMARY	Total	depreciation	(exhibit II)	F	uel	Other	Maintenance	production
ite u tiln								
Multipurpose lams	\$ 12,362,862	\$ 5,398,433	\$ 6,964,429	\$	_	\$ 3,710,927	\$ 3,253,502	\$ -
".Pirle-use, schedule E	4,554,521	1,230,923	3,323,598	•	-	2,638,719	684,870	· -
In le-purpose sams	2,473,465	875,124	1,598,341		-	962,806	635,535	-
umierlani Basın projects; note a	12,551,321	-	12,551,321		-			12,551,321
Pream plants	594,795,929	60,330,509	534,465,420		157,926	39,266,418	60,(41,076	-
in lear plants	23,537,251 16,722,459	9,801,346 2,647,006	13,735,905 14,075,453		109,516 116,621	4,587,396 154,304	2,038,993 804,528	_
es turline plants Total generation	666,997,808	80,283,341	586,714,467		384,063	51,320,570	67,458,513	12,551,321
Fur hand power	90,398,584		90,398,584					90,398,584
Inter home power received	59,205,321	• -	59,205,321		-	-	-	59,205,321
Imperchance power delivered	14,284,286		14,284,286*	·				14,284,286
Forer purchased and	/		25 - 22 (20					125 210 610
interchanged, net	135,319,619	166 222	1,653,434			<u>-</u>		135,319,619 1,653,434
of mountrel and load dispatching	1,808,767	155,333	27,063,003					27,063,003
Teral production	831,189,197	80,438,674	750,750,523	455.	384,063	51,320,570	67,458,513	176,587,377
Transmission	49,900,009	27,683,839	22,216,170	.,,,	-	13,053,304	9,162,866	-1-95-19511
Tust mer accounts	533,743	-	533,743		-	533,743		-
Teronstration of power use	1,277,340	-	1,277,340		-	1,277,340	-	-
layments in lieu of taxes; note t	36,846,755	-	36,846,755		-	-	-	36,846,755
Social security taxes	5,187,417	-	5,187,417		-	-	-	5,187,417
Administrative and general	36,091,505	2,199,607	33,891,898		_	33,479,048	412,850	_
Direct Multiple-use	112,203	2,199,WI	112,203		-	112,203	-12,000	_
narozpas ase								
Total operating expense	\$961,138,169	\$110,322,120	\$850,816,049	\$455,	384,063	\$99,776,208	\$77,034,229	\$218,621,549
			Dwadus	tion e	vnonco	Install	led Peti	o of average
		κWh generate	d includin		eciation Per kWh	capacity	at gros	s generation installed
SYSTEM STATISTICS		(thousands)	Tota	1	(mills)	(rilowat		ity (percent)
,-neration								
:::l+ipurpuse dams		ar mma old	A 20 260	0/0	.784	2,966,	076	61.01
ire t		15.771,944	\$ 12,362 4,554		.289		,210	01.01
Multiple-use; schedule E		15,771,944	16,917		1.073		270	61.01
Total multipurpose dams		1,404,119	2,473		1.762			65.92
Cin le-purpose dams Turterlani Basin projects; note a		3,380,694	12,551		3.713	853		45.48
Al ca lams: note		2,393,359	,,,,	-		423		64.60
Total hydro teneration		22,950,116				4,488,		58.60
Stram plants		71,099,370	594,799		8.296			48.73 60.95
No lear plants		4,662,886 500,842	23,537 16,722		5.048 32.993	2,304 2,184		4.94
les turcine plants	+ o d	99,819,214	10,122	-,-//	35 • 273	26,726		49.00
Total commercial meneration; no Purchased power	te u	5,270,436	90,398	3.584		20,120	1934	
Inter hance power received		8,149,964	59,205					
E ster control and load dispatching		-	1,608	3,767				
'rer; note e		2,766,137	27,063	3,003				
Total system input		116,011,751						
Leli erri under Alica agreement		1,718,845; 4,738,044;		*,286 *				
Interphanse power delivered Met energy supply		109,554,862	831,189		7.587			
(ict ani internal uses		6,003						
renctication and transformation losses		3,115,673	·		- 0			
lotal kWh sales and production	expense	106,433,186	\$831,189	9,197	7.809			

Est c:

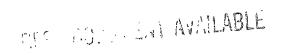
a. T/A pur hases substantially all of the output of eight hydro plants in the Cumberland River Basin. In accordance with memorandums of understanding with the Corps of Engineers, Department of the Army, the Cumberland Basin projects are operated for optimum projection of power in conjunction with TVA's power system, subject to flood control, navigation, and other operating requirements of the Army.

Pagments made to states and counties in which power operations are carried out. The basic amount is 5 percent of gross revenues now the sale of power to other than Federal agencies during the preceding year, with the provision of minimum payments under order outside the provision of minimum payments under order of the provision of minimum payments under order order order order order order order or order order or order ord

Figuration of twelve hydro plants of the Aluminum Company of America is coordinated with the operation of TVA's power plants under an arrangement whereby the storage and release of water from the Almoa plants are carried out by the company under TVA's direction.

Installat repeated 3,407,600 vilowatts during fiscal year 1975. Additions consisted of the first and second 1,152,000-12 last reperating units at the Browns Ferry Nuclear Plant, 1.088.000 vilowatts in sixteen gas turbine units at the Johnsonville fees, blant, and 15,400 bilowatts from modifications to four generators.

able energy in The expenses of the generation, less credit for the fair value of energy delivered to the TVA power system, were charged to energy tion.



TENNESSEE VALLEY AUTHORITY DETAILS OF NONPOWER NET EXPENSE FOR THE YEAR ENDED JUNE 30. 1978

	Direct	Multiple-use (schedule E)	Total
WATER RESOURCES DEVELOPMENT Navigation operations			
Studies and investigations Navigation engineering and investigations Administrative and general expenses; schedule F	\$1,240,713 58,482	\$ <u>-</u>	\$1,240,713 58,482
Operation and maintenance of facilities Operation	1,299,195	1,609,225	1,299,195
Maintenance Administrative and general expenses	38,940	451,748 71,402 944,471	490,688 71,402 2,957,800
Provision for depreciation	2,013,329 2,065,334 \$3,364,529	3,076,846 \$3,076,846	5,142,180 6,441,375
 Total expense of navigation operations 	φ3,304,729	φ3,070,040	0,441,317
Flood control operations Studies and investigations System studies and investigations	\$ 325,158	\$ -	325,158
Local flood damage prevention studies Administrative and general expenses; schedule F	516,382 21,760 863,300	<u>-</u>	516,382 21,760 863,300
Operation and maintenance of facilities Operation Maintenance	25,285	1,935,840 515,190	1,961,125
Administrative and general expenses Provision for depreciation	390,373 415,658	85,002 931,860 3,467,892	85,002 1,322,233 3,883,550
Local flood control improvements	1,143,775	-	1,143,775
Total expense of flood control operations	\$2,422,733	\$3,467,892	5,890,625
Recreation development	d 700 016		500.00/
Recreation development Administrative and general expenses; schedule F	\$ 702,216 40,801 743,017	\$, <u>-</u>	702,216 <u>40,801</u> 743,017
Operation and maintenance of facilities Operation	-	1,508,953	1,508,953
Maintenance Administrative and general expenses Provision for depreciation	34,628 - 52,551 87,179	4,018 68,002 124,341 1,705,314	38,646 68,002 176,892 1,792,493
Total expense of recreation development	\$ 830,196	\$1,705,314	2,535,510
Regional water quality management Regional water quality management Provision for depreciation Administrative and general expenses; schedule F			1,242,213 45,128 42,162
Total expense of regional water quality management			1,329,503
Fisheries and waterfowl resources development Fisheries resource assessment Fisheries resource management and use Waterfowl management and use Provision for depreciation Administrative and general expenses; schedule F			168,659 254,429 175,715 12,110 17,680
Total expense of fisheries and waterfowl resources development			628,593

SCHEDULE D

TENNESSEE VALLEY AUTHORITY DETAILS OF NONPOWER NET EXPENSE

FOR THE YEAR ENDED JUNE 30. 1975

WATER RESOURCES DEVELOPMENT - continued Preliminary surveys and engineering Preliminary surveys and engineering Administrative and general expenses; schedule F Total expense of preliminary surveys and engineering Total expense of water resources development FERTILIZER AND MUNITIONS DEVELOPMENT		\$ 181,235 5,440 186,675 \$17,012,281
Developmental production Cost of products distributed; note a, Materials used Direct manufacturing and shipping expense Indirect manufacturing and shipping expense Provision for depreciation and depletion Recoveries from byproducts and in-process materials In-process inventory changes Finished inventory changes Total cost of products distributed General expenses Adjustment on retirements of manufacturing plant and equipment, net Gain on sale of phosphate reserves, net		\$16,605,313 20,415,231 3,098,134 2,473,978 683,806* 52,992* 4,615,360* 37,240,498
Other general expenses Administrative and general; schedule F Shipping order and field inventory expense Provision for depreciation of idle manufacturing plant and equipment Other, including depreciation of \$11,787* Total general expenses Total production expense Less transfers and sales of products Transfers to TVA programs, at market prices Fertilizer industry demonstrations Farm test demonstrations Agricultural development Other Total transfers Direct sales Total transfers and sales Net income* of developmental production	\$ 559,859 260,281 67,897 63,473	951,510 519,869 37,760,367 37,659,853 644,923 541,130 152,439 38,998,345 1,312,442 40,310,787 2,550,420*
Fertilizer introduction Fertilizer industry demonstrations Fertilizers used Educational distribution expense Administrative and general expenses; schedule F Less industry payments for fertilizer; note b Farm test demonstrations outside the Valley Fertilizers used Planning and supervision Administrative and general expenses; schedule F Less farmer payments for fertilizer Net expense of fertilizer introduction	1,383,658 86,969 659,496 32,613	\$37,659,853 1,470,627 39,130,480 37,136,070 1,994,410 644,923 692,109 1,337,032 555,233 781,799 2,776,209

*Deduct

and the second

DETAILS OF NONPOWER NET EXPENSE

FOR THE YEAR ENDED JUNE 30, 1975

FERTILIZER AND MUNITIONS DEVELOPMENT - continue1 Research and development		
Research and development		
Research and development of products and processes Applied research		\$1,117,048
Process engineering		1,307,100
General expenses		964,181
Research and development of processes for recovery of sulfur		3,388,329 172,642
Basic chemical and agronomic research		2,585,173
Provision for depreciation		100,329
Administrative and general expenses; schedule F		163,066
Total expense of research and development		6,409,539
Net expense of fertilizer and munitions development		\$6,635,328
GENERAL RESOURCES DEVELOPMENT		
Agricultural projects		
Valley agricultural resources development Fertilizers used		\$ 541,130
Planning and supervision		917,860
•		1,458,990
Less farmer payments for fertilizer		455,671
Special agricultural inventigations and technical agrictance	¢ 68 ana	1,003,319
Special agricultural investigations and technical assistance Agribusiness development	\$ 68,202 86,356	
Program planning and analysis	75,164	
High-income agricultural enterprises, including fertilizers	-	
used of \$10,747 Studies of agricultural uses of heated water	192,128	
Economic evaluation of livestock waste disposal systems	156,607 78,709	
Tennessee Valley rural life conferences	73,550	
Administrative and general expenses; schedule F	66,585	797,301
Net expense of agricultural projects		1,800,620
Forest and wild land resources development		
Forest industry development		360,494
Forest and wildlife management and wildlife use Forest and wild land investigations		365,675
Improvement and establishment of wild land vegetation		387,814
Provision for depreciation		339,182 12,333
		339,182
Provision for depreciation		339,182 12,333
Provision for depreciation Administrative and general expenses; schedule F		339,182 12,333
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development		339,182 12,333 48,961
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources		339,182 12,333 48,961 1,514,459
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations.		339,182 12,333 48,961
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations		339,182 12,333 48,961 1,514,459 308,520
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations Strip mine reclamation demonstrations Administrative and general expenses; schedule F		339,182 12,333 48,961 1,514,459 308,520
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations		339,182 12,333 48,961 1,514,459 308,520 4,080
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development		339,182 12,333 48,961 1,514,459 308,520 4,080 312,600
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations		339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance		339,182 12,333 48,961 1,514,459 308,520 4,080 312,600
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F		339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E	117 000	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F	117,992 100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance	117,992 100,811 3,401	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance Provision for depreciation, including \$194 direct	100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244 82,963
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance Provision for depreciation, including \$194 direct Administrative and general expenses Total expense of tributary area development	100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244 82,963
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance Provision for depreciation, including \$194 direct Administrative and general expenses Total expense of tributary area development Interagency health services demonstrations	100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244 82,963
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance Provision for depreciation, including \$194 direct Administrative and general expenses Total expense of tributary area development Interagency health services demonstrations Interagency health services demonstrations	100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244 82,963 222,204 1,990,536
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance Provision for depreciation, including \$194 direct Administrative and general expenses Total expense of tributary area development Interagency health services demonstrations Interagency health services demonstrations Administrative and general expenses; schedule F	100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244 82,963 222,204 1,990,536
Provision for depreciation Administrative and general expenses; schedule F Total expense of forest and wild land resources development Strip mine reclamation demonstrations. Strip mine reclamation demonstrations Administrative and general expenses; schedule F Total expense of strip mine reclamation demonstrations Tributary area development Basic investigations Development assistance in specific tributary areas Local government assistance Administrative and general expenses; schedule F Multiple-use operating expenses; schedule E Operation and maintenance Provision for depreciation, including \$194 direct Administrative and general expenses Total expense of tributary area development Interagency health services demonstrations Interagency health services demonstrations	100,811	339,182 12,333 48,961 1,514,459 308,520 4,080 312,600 389,284 958,841 337,244 82,963 222,204 1,990,536

SCHEDULE D

TENNESSEE VALLEY AUTHORITY

DETAILS OF NONPOWER NET EXPENSE

FOR THE YEAR ENDED JUNE 30, 1975

JENERAL RESOURCES DEVELOPMENT - continued	
Regional economic studies	
Regional economic studies Administrative and general expenses; schedule F	\$ 568,211 32,641
Total expense of regional economic studies	600,852
Actual dispense of regional deviation	
Townlift community improvement	744,703
Town'ift community improvement Administrative and general expenses; schedule F	43,521
Total expense of townlift community improvement	788,224
Cooperative training demonstrations	
Cooperative training demonstrations	723,665
Administrative and general expenses; schedule F	47,602
Total expense of cooperative training demonstrations	771,267
Mineral resources projects	
Mineral resources projects Administrative and general expenses; schedule F	276,556 10,881
Total expense of mineral resources projects	287,437
Environmental quality projects	202.0/5
Regional air quality management Research on disposal of solid wastes	131,267 172,289
Administrative and general expenses; schedule F	14,961
Total expense of environmental quality projects	318,517
Net expense of general resources development	\$ 8,544,444
LAND BETWEEN THE LAKES OPERATIONS	
Land Between The Lakes operations	\$ 2,033,470
Provision for depreciation Administrative and general expenses; schedule F	405,587 61,200
Amilitatiative and general expenses, schedule i	
Total expense of Land Between The Lakes operations	\$ 2,500,257
VALLEY MAPPING AND REMOTE SENSING	
Valley mapping and remote sensing	\$ 424,872
Provision for depreciation Administrative and general expenses; schedule F	14,994 13,851
Total expense of valley mapping and remote sensing	\$ 453,717
Total expense of variety mapping and remove sensing	Ψ 4/3,1±1
OTHER EXPENSE OR INCOME*	A
Emergency preparedness Maintenance of bridges financed by others on TVA dams	\$ 11,133 71,370
Interest income from receivables	20,395*
Other expense, net	\$ 62,108
NET EXPENSE	\$35,208,135
	10/11-0/

Notes:

Research on products and processes is not scaled to TVA's production operations. Its scope is determined ty opportunities to render service in the public interest; findings are made available to the public through technical publications, answers to correspondence, and discussions with technical visitors to the laboratories and plants. For these reasons, the cost of such research is accounted for under a separate program rather than as a part of production operations.

t. Cales of fertilizer materials are not on a commercial basis, but are made to organizations collaborating in an educational program aimed at improving the manufacture, distribution, and use of fertilizers.

a. In the discharge of its obligations under Section 5 of the TVA Act, TVA operates plants for the manufacture of products for agricultural and military purposes; conducts research and pilot plant development of new or improved processes for the production of new or existing fertilizers and munitions; and tests the fertilizers produced and demonstrates their effectiveness. Production is carried out on an experimental tasis, and costs are consequently affected by the developmental nature of the manufacturing operations.

TENNESSEE VALLEY AUTHORITY OPERATING EXPENSES OF MULTIPLE-USE FACILITIES FOR THE YEAR ENDED JUNE 30, 1975

Expenses

Operation

Water dispatching operations	\$ 1,268,170
Water control investigations	161,290
Investigations and control of reservoir ecology	830,741
Plant protection and services to visitors	1,724,773
Operation and upkeep of dam reservations	1,316,725
Reservoir land management	1,940,008
Development of water resource management methods	248,246
Other expense	303,056
Total operation	7,793,009
Administrative and general expenses; schedule F	340,010
Maintenance	1,673,555
Provision for depreciation	3,332,212
Total	\$13,138,786

P	Operation	Administrative and general	<u>Maintenance</u>	Depreciation	Total
Distributed to					
Power operations	\$2,638,719	\$112,203	\$ 684,879	\$1,230,923	\$ 4,666,724
Navigation operations	1,609,225	71,402	451,748	944,471	3,076,846
Flood control operations	1,935,840	85,002	515,190	931,860	3,467,892
Recreation projects	1,508,953	68,002	4,018	124,341	1,705,314
Tributary area development	100,272	3,401	17,720	100,617	222,010
Total	\$7,793,009	\$340,010	\$1,673,555	\$3,332,212	\$13,138,786

SCHEDULE F

TENNESSEE VALLEY AUTHORITY

ADMINISTRATIVE AND GENERAL EXPENSE

FOR THE YEAR ENDED JUNE 30. 1975

Fxpenses	
Board of directors	\$ 266,397
Office of the general manager	340,963
Planning and budget staffs	471,905
Washington office	136,087
Information office, including technical library service	1,295,902
Equal employment opportunity staff	423,121
Division of personnel.	3,286,874
Division of finance	2,395,336
Division of law	1,925,903
Division of property and supply	1,354,028
Medical and safety services	1,684,635
Other administrative and general	226,771
Total	\$13,807,922

		Percent
	. Amount	of total
Distributed to		
Construction	\$ 6,248,960	
Recovered through services billed to others at cost	211,187	1.53
Expense of programs		
Power	5,5 ¹ 42,167	40.13
Water resources development		
Navigation	58,482	.42
Flood control	21,760	.16
Regional water quality management	42,162	.31
Fisheries and waterfowl resources development	17,680	.13
Preliminary surveys and engineering	5,440	.04
Recreation projects	40,801	.30 2.46
Multiple-use operations	340,010	2.46
Fertilizer and munitions development		
Developmental production	559,859	4.05
Fertilizer industry demonstrations	86,969	
Farm test demonstrations	32,613	
Research and development	163,066	1.18
General resources development		
Agricultural projects	66,585	.48
Forest and wild land resources development	48,961	•35
Strip mine reclamation demonstrations	4,080	.03
Tributary area development	82,963	.60
Interagency health services demonstrations	9,520	.07
Regional economic studies	32,641	.24
Townlift community improvement	43,521	.31
Cooperative training demonstrations	47,602	.34
Mineral resources projects	10,881	.08
Environmental quality projects	14,961	.11
Land Between The Lakes operations	61,200	• 44
Valley mapping and remote sensing	13,851	
Total	\$13,807,922	100.00

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